### Kennedy/Jenks Consultants

### **Engineers and Scientists**

10 February 1994

530 South 336th Street Federal Way, Washington 98003 206-874-0555 (Seattle) 206-927-8688 (Tacoma) FAX 206-952-3435

Ms. Deborah Yamamoto South Tacoma Field Site Manager U.S. Environmental Protection Agency, Region 10 1200 Sixth Avenue Seattle, Washington 98101

Subject:

Fourth Quarterly Groundwater Monitoring Report

Former Griffin Wheel Brass Foundry - Tacoma, Washington

Amsted Industries K/J 926061.00

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Dear Ms. Yamamoto:

In accordance with our agreement with Amsted Industries (Amsted) and the *Final Groundwater Monitoring Program Work Plan of February 1993* (Final Work Plan), Kennedy/Jenks Consultants is pleased to provide you with two (2) copies of this Fourth Quarterly Groundwater Monitoring Report, which presents the results of Kennedy/Jenks Consultants' September 1993 groundwater monitoring activities at Amsted's former brass foundry (Griffin Wheel Brass Foundry).

This letter report includes:

- A summary and description of monitoring activities performed at the former
   Griffin Wheel Brass Foundry site
- Water level elevations of onsite groundwater monitoring wells
- A brief discussion of local hydrogeology relative to other investigations performed at the former Griffin Wheel Brass Foundry site, including groundwater flow direction and contour map
- Observations of floating product



- Groundwater sampling procedures and field parameters
- A summary of analytical results.

### FIELD MONITORING ACTIVITIES

Kennedy/Jenks Consultants personnel performed the following groundwater monitoring activities at the former Griffin Wheel Brass Foundry site on 6 January 1994:

- Measured water levels in groundwater monitoring wells NMW-8, NMW-9, NMW-10, NMW-11, NMW-12, NMW-13, NMW-14, MW-1A, and MW-3A
- Inspected the monitoring wells (listed above) for the presence of floating product
- Recovered floating product from groundwater monitoring well-NMW-13
- Collected groundwater samples from monitoring wells NMW-8, NMW-9, NMW-10, NMW-11, NMW-12, NMW-13, and NMW-14.

### WATER LEVEL ELEVATIONS

Water level measurements were performed at groundwater monitoring wells NMW-8, NMW-9, NMW-10, NMW-11, NMW-12, NMW-13, NMW-14, MW-1A, and MW-3A. The locations of these wells are shown on Figure 1D (Attachment 1). Water level measurements were performed by procedures specified in the Final Work Plan. Water level elevations are presented in Table 1D (Attachment 2).

### **HYDROGEOLOGIC CONDITIONS**

Groundwater elevations were contoured using PC TIN 3.4D and ARC/INFO 3.4D computer software. The contour map (Figure 1D - Attachment 1) shows the groundwater surface of onsite monitoring wells. The groundwater flow direction and gradient near the location of the former underground storage tank (UST) were estimated from the contour map.

Estimated flow directions and gradients for the fourth quarter varied significantly in the vicinity of the former UST from previous measurements. The estimated groundwater flow directions for the fourth quarter ranged from a northeast to southeast direction (north 43 degrees east to south 77 degrees east); the estimated groundwater gradients ranged rom 0.002 to 0.003 feet per foot (ft/ft). The estimated groundwater flow directions from previous measurements in 1993 were to the northwest. The groundwater gradients increased from previous measurements (0.0015 to 0.0020 ft/ft).

Hydrogeologic conditions appear consistent with previously calculated flow direction and gradient data, indicating seasonal variations as presented in the *Subsurface Investigation, Former Griffin Wheel Brass Foundry, South Tacoma Field Superfund Site, Tacoma, Washington*, dated December 1992, by Kennedy/Jenks Consultants.

### **OBSERVATION OF FLOATING PRODUCT**

All onsite wells were monitored and visually inspected for the presence of floating product on the water table surface. The procedures for observing and monitoring all wells, except well NMW-13, entailed affixing an oil-absorbent material to a water level probe and placing the probe in the well at the groundwater surface. The absorbent

material was then visually inspected for the presence of floating product. Product was monitored in well NMW-13 using an oil/water interface probe. The actual thickness of product could not be determined due to the viscosity of the product.

Floating product was observed only in well NMW-13. The floating product was recovered from this well by affixing oil-absorbent material to a weighted string and placing the weighted string into the well at the groundwater surface. This procedure was repeated several times until no floating product was observed on the absorbent material. Floating product saturated the absorbent material during the initial three recovery procedures. Thereafter, the amount of floating product affixed to the absorbent material diminished with each subsequent application of this procedure.

### **GROUNDWATER SAMPLING**

Groundwater samples were collected from wells NMW-8, NMW-9, NMW-10, NMW-11, NMW-12, NMW-13, and NMW-14 and analyzed for total petroleum hydrocarbons (TPH) by Washington State Method WTPH-D and for polynuclear aromatic hydrocarbons (PAHs) by U.S. Environmental Protection Agency (EPA) Method 8310.

Groundwater sampling was performed as specified in the Final Work Plan. Prior to purging and sampling the wells, the dedicated pumps were raised within the casing so that the top of the pump was within approximately 1 foot of the static water level.

Field parameters, including pH, temperature, and conductivity, were measured and recorded during the groundwater sampling event. The field parameters for this sampling event are summarized in Table 2D (Attachment 2). Groundwater purge and sampling forms are presented in Attachment 3.

One field duplicate sample and one field blank sample were collected during the fourth quarterly sampling event. The field duplicate blank sample was analyzed for the same analytes as the groundwater samples (TPH and PAHs). The field blank sample was analyzed for TPH. Analytical results are summarized in Table 3D (Attachment 2). Complete analytical results (including quality assurance data) are maintained in the project file and are available upon request.

### **SUMMARY OF ANALYTICAL RESULTS**

Analytical data generated by the laboratory were reviewed to assess the laboratory's performance in meeting the quality control (QC) specifications for detection limits, accuracy, precision, and completeness. All QC criteria for the WTPH-D analysis (i.e., method blank and surrogate recoveries) were within the method control limits. In addition, all QC criteria for the PAH analysis (i.e., surrogate recoveries, matrix spike recoveries, relative percent differences, and method blank samples) were met.

Several noncarcinogenic PAH compounds were detected in the sample from monitoring well NMW-13. Concentrations of all detected compounds ranged from 0.093 to 0.56  $\mu$ g/L. The detected compounds were similar to compounds detected in samples collected from well NMW-13 during previous sampling in September 1992, February, May, and September 1993. Concentrations detected during the fourth quarterly sampling event were slightly lower than concentrations detected during the previous sampling events. A comparison of compounds detected in samples from well NMW-13 for the five sampling events is shown in Table 4D (Attachment 2). PAHs were not detected in any of the other samples collected from the groundwater monitoring wells.

TPHs were detected in the sample collected from monitoring well NMW-13 at a concentration of 0.49 mg/L. This concentration is slightly lower than concentrations

previously detected in samples collected from this well. TPHs were detected in the samples collected from well NMW-13 during the second and third quarterly sampling events at concentrations of 0.95 and 1.0 mg/L, respectively. TPHs were detected in the sample collected from well NMW-13 during the first quarterly event at a concentration of 0.7 mg/L.

TPHs were not detected in any of the other samples collected from the monitoring wells during the fourth quarterly event. TPHs were previously detected in samples collected from monitoring well NMW-9 during the second and third quarterly events at concentrations of 0.28 and 0.32, respectively. TPHs were not detected (at a detection limit of 0.3 mg/L) in the sample from well NMW-9 during the first quarterly sampling event. The detection limit for TPH at NMW-9 during the fourth quarterly event was 0.25 mg/L.

TPHs were not detected in any of the samples collected from the monitoring wells during the September 1992 sampling event. However, groundwater samples collected in September 1992 were analyzed for TPH by Washington State Method WTPH-418.1. (Groundwater samples collected during the first, second, third, and fourth quarters of groundwater sampling were analyzed for TPH by Washington State Method WTPH-D.) TPHs were not detected in any of the other sampled groundwater monitoring wells.

This fourth quarterly sampling event and report completes the quarterly groundwater monitoring program outlined in our Final Work Plan dated February 1993 for groundwater monitoring at the former Griffin Wheel Brass Foundry.

Please contact us at (206) 874-0555 if you have any questions regarding the information presented herein.

Very truly yours,

KENNEDY/JENKS CONSULTANTS

Julie A. Reid, CHMM Project Engineer

Nother Graves (mps)

Nathan A. Graves Vice President

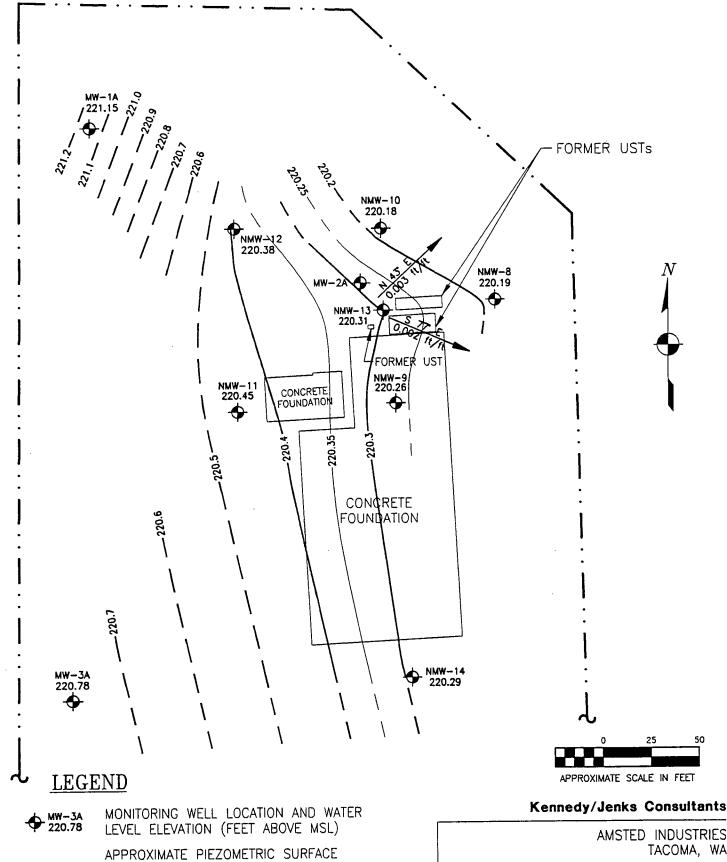
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Attachment

cc: Edward Brosius, Amsted Industries (w/att.)
Bill Joyce, Ogden Murphy & Wallace (w/att.)
John Frerich, ICF Technology, Inc. (w/att.)
Chris Poindexter, Washington State Department of Ecology (w/att.)

## Attachment 1

Figure



ELEVATION CONTOURS (FEET ABOVE MSL) (0.1 FOOT CONTOUR INTERVAL)

APPROXIMATE PIEZOMETRIC SURFACE ELEVATION CONTOURS (FEET ABOVE MSL) (0.05 FOOT CONTOUR INTERVAL)

INFERRED POTENTIOMETRIC SURFACE ELEVATION CONTOURS (FEET ABOVE MSL)

AMSTED INDUSTRIES TACOMA, WA

### ESTIMATED POTENTIOMETRIC SURFACE **JANUARY 1994**

926061.00/P4SK001

FIGURE 1D

### **Attachment 2**

**Tables** 

### TABLE 1D(a)

# GROUNDWATER LEVEL MEASUREMENTS FOURTH QUARTER - JANUARY MONITORING EVENT Former Griffin Wheel Brass Foundry

Well No.	Location No.	Top of Monument Elevation (ft) <sup>(b)</sup>	Depth of Water (ft) <sup>(c)</sup>	Water Level Elevation (ft)
NMW-8	1789	252.94	32.75	220.19
NMW-9	1790	253.79	33.53	220.26
NMW-10	1791	253.49	33.31	220.18
NMW-11	1792	252.28	31.83	220.45
NMW-12	1793	252.49	32.11	220.38
NMW-13	1794	252.76	32.45	220.31
NMW-14	1795	249.34	29.05	220.29
MW-1A	1773	243.62	22.47	221.15
MW-3A	1775	240.64	19.86	220.78

### Notes:

- (a) Tables in the Quarterly Groundwater Monitoring Report will be labeled A for the first quarter, B for the second quarter, C for the third quarter, and D for the fourth quarter to differentiate between the four quarters of groundwater monitoring.
- (b) Elevations are given in feet and are based on City of Tacoma vertical datum.
- (c) Depth to water is measured from top of the steel well monument.

TABLE 2D

# SUMMARY OF GROUNDWATER MONITORING ACTIVITIES FOURTH QUARTER - JANUARY MONITORING EVENT Former Griffin Wheel Brass Foundry

Well Number	Sample Identification	Date	Time	Water Depth <sup>(a)</sup> (feet)	Product Observed	Sampling Method <sup>(b)</sup>	Duration of Purge (Minutes)	Water Volume Removed (gallons)	Well Volumes Removed	Conductivity (µmhos/cm)	pH (units)	Temperature (° Celsius)	Relative Turbidity/Color <sup>(c)</sup>	Well Dewatered
NMW-8	1789GU000000000.013	01/06/94	1220	32.75	No	Sub. Pump	23	6.0	3.3	192	6.42	12.1	Clear	No
NMW-9	1790GU000000000.013	01/06/94	1330	33.53	No	Sub. Pump	45	25	3.5	271	6.22	12.3	Clear	No
NMW-10	1791GU000000000.013	01/06/94	1040	33.31	No	Sub. Pump	25	5.5	3.1	201	6.30	11.9	Slight/Brown	No
NMW-11	1792GU000000000.013	01/06/94	1125	31.83	No	Sub. Pump	25	7.5	3.1	563	6.69	12.0	Slight/Brown	No
NMW-12	1793GU000000000.013	01/06/94	1005	32.11	No	Sub. Pump	22	6.0	3.1	252	6.23	11.4	Clear	No
NMW-13	1794GU201000000.013 2003GU202000000.013 <sup>(d)</sup>	01/06/94	1500	32.45	Yes	Sub. Pump	59	55	3.3	278	6.30	12.8	Clear	No
NMW-14	1795GU0000000000.013	01/06/94	0915	29.05	No	Sub. Pump	28	8.0	3.3	226	6.67	11.8	Clear	No
MW-1	NS <sup>(e)</sup>	01/06/94	1200	22.47	No	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3	NS	01/06/94	1105	19.86	No	NS	NS	NS	NS	NS	NS	NS	NS	NS

### Notes:

- (a) Depth measured from top of well monument.
- (b) All wells were sampled with a submersible pump.
- (c) Relative turbidity was determined through visual observation.
- (d) A duplicate groundwater sample was collected at well NMW-13.
- (e) NS Not sampled. The water levels of monitoring wells MW-1 and MW-3 were measured and the wells were visually observed for the presence of product.

**TABLE 3D** 

# SUMMARY OF GROUNDWATER ANALYTICAL RESULTS FOURTH QUARTER - JANUARY MONITORING EVENT Former Griffin Wheel Brass Foundry

Well Number		PAH Analyt	tes <sup>(a)</sup> (µg/L)		TPH <sup>(b)</sup>	
(Location Number)	Naphthalene	Fluorene	Phenanthrene	Anthracene	(mg/L)	
NMW-8 (1789)	<0.48 <sup>(c)</sup>	< 0.096	<0.048	< 0.048	< 0.25	
NMW-9 (1790)	< 0.50	< 0.10	< 0.050	< 0.050	< 0.25	
NMW-10 (1791)	< 0.47	< 0.094	< 0.047	< 0.047	< 0.25	
NMW-11 (1792)	< 0.48	< 0.095	<0.048	< 0.048	< 0.25	
NMW-12 (1793)	< 0.47	< 0.094	< 0.047	< 0.047	< 0.25	
NMW-13 (1794/2003) <sup>(d)</sup>	<0.47/<0.47	0.56/0.85	0.093/0.16	0.11/0.11	0.49/0.55	
NMW-14 (1795)	< 0.47	< 0.094	< 0.047	< 0.047	< 0.25	
Field Blank (3743)	NA <sup>(e)</sup>	NA	NA	NA	< 0.25	

### Notes:

- (a) Groundwater samples were analyzed for polynuclear aromatic hydrocarbons (PAHs) by EPA Method 8310. Only detected compounds are provided in this table.
- (b) Groundwater samples were analyzed for total petroleum hydrocarbons (TPH) by Washington State Method WTPH-D.
- (c) "<" denotes analyte was not detected at the indicated detection limit.
- (d) A field duplicate sample (location number 2003) was collected at well NMW-13.
- (e) NA not analyzed.

TABLE 4D

# FOR MONITORING WELL NMW-13 Former Griffin Wheel Brass Foundry

			Sampling Event		
Analytes	September 1992	First Quarter February and March 1993	Second Quarter May 1993	Third Quarter September 1993	Fourth Quarter January 1994
PAH Analytes (µg/L)	(a)				
Naphthalene	< 0.50 <sup>(b)</sup>	<0.51/<0.51 <sup>(c)</sup>	1.5/1.5 <sup>(c)</sup>	0.99/1.0 <sup>(c)</sup>	<0.47/<0.47 <sup>(c)</sup>
Acenaphthene	< 0.50	<0.51/0.84	<0.47/<0.47	<0.47/<0.50	<0.47/<0.47
Fluorene	< 0.10	0.27/0.44	0.83/0.90	0.85/0.86	0.56/0.85
Phenanthrene	2.9	0.37/0.16	0.62/0.71	0.69/0.71	0.093/0.16
Anthracene	0.064	0.099/0.085	0.10/0.13	0.10/0.10	0.11/0.11
Fluoranthene	4.3	0.73/0.84	<0.094/<0.094	<0.094/<0.10	<0.094/<0.094
Pyrene	4.0	0.69/0.45	<0.094/<0.094	<0.094/<0.10	<0.094/<0.094
TPH (mg/L)	< 1.0 <sup>(d)</sup>	0.7/0.8 <sup>(e)</sup>	0.95/0.86 <sup>(e)</sup>	1.0/0.93 <sup>(a)</sup>	0.49/0.55 <sup>(e)</sup>

#### Notes:

- (a) Groundwater samples were analyzed for polynuclear aromatic hydrocarbons (PAHs) by EPA Method 8310. Only detected compounds are provided in this table.
- (b) "<" denotes analyte was not detected at the indicated detection limit.
- (c) A field duplicate sample was collected during this sampling event. The second number in the table represents the sample duplicate analytical result.
- (d) The groundwater sample collected during this event was analyzed for total petroleum hydrocarbons (TPH) by Washington State Method WTPH-418.1.
- (e) Groundwater samples collected during the first, second, and third quarters were analyzed for TPH by Washington State Method WTPH-D.

10 February 1994 926061.00



**Groundwater Purge and Sample Forms** 

Groundwater	Purge a	nd Samp	le Form	Date:	1-6-94	Kennedy	/Jenks	Consultants
PROJECT NAME:	Amste	-d		WELL	NUMBER:	MW-8A		
PROJECT NUMBER:	926	<b>64.0</b> 0	92606	<u>01.00</u> perso	ONNEL:	AR/T	=_	
STATIC WATER LEV	/EL (FT):	37.	75	MEASI	JRING POINT	DESCRIPTION:	TOL	7
WATER LEVEL MEAS	SUREMENT I	METHOD: <u></u>	linst	PURGI	E METHOD: I	edicated	Black	er
TIME START PURG	:: <u>//:</u> :	54		PURGI	E DEPTH (FT)	34		
TIME END PURGE:	_12	2:17						
TIME SAMPLED:	12	: ZO						
			obser	wed				
COMMENTS: <u>JU</u>	ed.	pump	1281			· · · · · · · · · · · · · · · · · · ·	····	
	<u> </u>	,						
			=			ULTIPLIER FOR		
WELL VOLUME CALCULATION	TOTAL D		DEPTH TO WATER (FT)	WATER COLUMN (F	T) CASI	NG DIAMETER (	IN) 6	CASING VOLUME (GAL)
(FILL IN BE- FORE PURGING)	44	_0	32,75	11.25	X 0.16	0.64 1	.44	1.8
TIME		11:55	1201	12:06	12:12	12:15		
VOLUME PURGED (	GAL)	0.5	2	3,5	5.0	6.0		
PURGE RATE (GPM	)							
TEMPERATURE (°C	)	11.6	11.8	11.9	11,9	12./		
pH		6.71	6.51	6.51	6.54	6.42		
SPECIFIC CONDUCTIVITY (m (uncorrected)	(cromhos)		197	189	158	192	· · · · · · · · · · · · · · · · · ·	
DISSOLVED OXYGE	N (mg/L)				_	_	· ·	
eH(MV)Pt-AgC1 re	ef.				<u>'</u>	_		
TURBIDITY/COLOR		Light Frn.	Light Brn	Eght	Light Brn	Clear		
ODOR	DDOR //		None	None	None	None		
DEPTH TO WATER ! PURGE (FT)	DURING		1.0.7.0		_			
	NUMBER OF CASING		21	~2	43	~3		
DEWATERED?		No -				——————————————————————————————————————		
ı		ı , •	ı	1	1	1 - 1		1 1

Ground	water P	urge a	nd Sar	nple Fo	rm	Date: 1-6-94- Kennedy/Jenks Consultant						
PROJECT I	NAME: A	mste	d			WELL NUMBER: NMW-BA						
					- <del></del> -		NNEL:	JAR/	JCL	<del></del>		
SAMPLE DA	ATA: AMPLED: _	17	:20		co	MMENTS: _						
DEPTH :	SAMPLED (I	FT):	34		<del></del>	_		<del></del>		<u></u>		
SAMPLI	NG EQUIPM	ENT: Z	Dedic.	ated 2	Bladder	Fump -						
SAMPLE NO.	NO. OF CONTAIN- ERS	CON- TAINER TYPE	PRESER- VATIVE	FIELD FILTRA- TION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUS- TODY AT 4°C?		COMMENTS		
	3	Glass	_	_	11	Clear	N/A	yes yes	WTPH-D			
	3	Ander		_	12	Clear	N/A	Yes	PAH			
	TER DISPO DISCHARGE AL METHOD					OMMENTS: _						
DRUM D	ESIGNATIO	N(S)/VO	LUME PER	(GAL):_	<u></u>							
WELL HEA	D CONDITI	ONS CHE	CKLIST (	CIRCLE Y	ES OR NO -	IF NO, AD	D COMM	ENTS):				
WELL SEC	URITY DEV	ICES OK	(BOLLAR	DS, CHRI	STY LID, C	ASING LID	AND LO	CK)?: (YES)	NO			
INSIDE O	F WELL HE	AD AND	OUTER CA	SING DRY	?: <b>(YES</b> )	NO						
WELL CAS	ING OK?:	(YES	NO									
COMMENTS	:									<del></del>		
GENERAL: WEATHE	R CONDITI	ONS:	Clear									
TEMPER	ATURE (SP	ECIFY °	C OR °F)	: <u>50</u>	F							
PROBLE	MS ENCOUN	TERED D	URING PU	RGING OR	SAMPLING?		· · · · · · · · · · · · · · · · · · ·					
Job	File:					<b>-</b> 						

PROJECT NAME: #msted WELL NUMBER: **MNV-9A**  PROJECT NUMBER: \$\frac{1}{72606.00}\$.00  PERSONNEL: \$\frac{1}{74B}\frac{1}{7CL}\$  STATIC WATER LEVEL (FT): \$\frac{3}{3.53}\$ MEASURING POINT DESCRIPTION: \$\frac{7}{70M}\$  WATER LEVEL MEASUREMENT METHOD: \$\frac{1}{26\ing 4}\$ PURGE METHOD: \$\frac{1}{26\ing 4}\$ PURGE DEPTH (FT) \$\frac{35}{35}\$  TIME START PURGE: \$\frac{1}{245}\$ PURGE DEPTH (FT) \$\frac{35}{35}\$  TIME SAMPLED: \$\frac{1}{3}\frac{30}{30}\$  COMMENTS: \$\frac{1}{3}\frac{30}{30}\$  COMMENTS: \$\frac{1}{3}\frac{30}{30}\$  COMMENTS: \$\frac{1}{3}\frac{30}{30}\$  COMMENTS: \$\frac{1}{3}\frac{30}{30}\$  COLUMN (FT) WATER (FT)   WATER (FT)   WATER COLUMN (FT)   WATER (FT)   WATER (CASING DIAMETER (IN)   (GAL)  (GAL)  T I M E  **OLUMN PURGED (GAL)  PURGE DEPTH TO
STATIC WATER LEVEL (FT): 33.53  MEASURING POINT DESCRIPTION: 7017  WATER LEVEL MEASUREMENT METHOD: Soling + PURGE METHOD: Dedicated Bladder Purge TIME START PURGE: 1245  PURGE DEPTH (FT) 35  TIME END PURGE:  TIME SAMPLED: 1330  COMMENTS: NO product obscrued  WELL VOLUME TOTAL DEPTH DEPTH TO WATER (FT)  WATER (FT) COLUMN (FT)  WATER (FT) COLUMN (FT)  TIME BEFORE PURGING)  TIME DEPTH TO WATER (FT)  TO WAT
WELL VOLUME CALCULATION (FT) (FT) WATER (FT) WATER (FT) (GAL)  TI ME END PURGING TOTAL DEPTH DEPTH TO WATER (FT) (FT) (FT) (FT) (FT) (FT) (FT) (FT)
TIME START PURGE: 1245 PURGE DEPTH (FT) 35  TIME END PURGE:  TIME SAMPLED: 1330  COMMENTS: NO product obscrued  Brised pump = 7!  WELL VOLUME TOTAL DEPTH OF WATER CASING DIAMETER (IN) (GAL)  (FILL IN BE-FORE PURGING) 448 33.53 11.27 X 0.16 0.64 1.44 7.21  TIME 01245 1252 1305 1317 1325 1329  VOLUME PURGED (GAL) 4 70 17 27 27 25  PURGE RATE (GPM)
TIME END PURGE:  TIME SAMPLED:
TIME SAMPLED: 1330  COMMENTS: NO product obscrued  Brised pump = 7!  WELL VOLUME TOTAL DEPTH DEPTH TO WATER COLUMN (FT)
COMMENTS: NO product observed  Brised pump = 7!  WELL VOLUME TOTAL DEPTH TO WATER (FT)  (FIL IN BE-FORE PURGING) 448 33.53 T1.27 T1 ME  VOLUME PURGED (GAL)  PURGE RATE (GPM)  WATER (FT)  DEPTH TO WATER (IN)  CASING DIAMETER (IN)  CASING DIAMETER (IN)  CASING VOLUM  (GAL)  11.27 V 0.16 0.64 1.44 7.21
Real Pump = 71
Real Pump = 71
WELL VOLUME TOTAL DEPTH DEPTH TO WATER COLUMN (FT) X CASING DIAMETER (IN) (GAL)  (FILL IN BE-FORE PURGING) 448 33.53 11.27 1325 1329  TIME 0-1245 1252 1305 1317 1325 1329  VOLUME PURGED (GAL) 177 27 27 25  PURGE RATE (GPM)
WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)         TOTAL DEPTH (FT)         DEPTH TO WATER (FT)         WATER COLUMN (FT)         CASING DIAMETER (IN)         CASING VOLUM (GAL)           T I M E         0.16         0.64         1.44         7.21           VOLUME PURGED (GAL)         0.16         0.72         1325         1329           PURGE RATE (GPM)         0.16         0.72         22         25
WELL VOLUME CALCULATION (FILL IN BE-FORE PURGING)         TOTAL DEPTH (FT)         DEPTH TO WATER (FT)         WATER COLUMN (FT)         CASING DIAMETER (IN)         CASING VOLUM (GAL)           T I M E         0.16         0.64         1.44         7.21           VOLUME PURGED (GAL)         0.16         0.72         1325         1325         1329           PURGE RATE (GPM)         0.16         0.17         22         25
FORE PURGING)       448       33.53       11.27       0.16       0.64       1.44       7.21         T I M E       0.1245       1252       1305       1317       1329       1329         VOLUME PURGED (GAL)       0       4       4       70       17       22       25         PURGE RATE (GPM)       0
TIME
PURGE RATE (GPM)
PURGE RATE (GPM)
TEMPERATURE (°C) 12.2 12.4 12.6 12.5 12.2 12.3
ph (6.28 6.49 6.28 6.24 6.27 6.22
SPECIFIC CONDUCTIVITY (micromhos) 349 Z74 Z71 Z71 Z69 Z71 (uncorrected) cm
DISSOLVED OXYGEN (mg/L)
eH(MV)Pt-AgC1 ref.
TURBIDITY/COLOR Clear Clear Clear Clear Clear Clear
ODOR
DEPTH TO WATER DURING PURGE (FT)
NUMBER OF CASING volumes removed ~ 1/2 > 2 3 3,3
DEWATERED?

Ground	lwater P	urge a	nd Sar	nple Fo	rm	Date:	1-6	<u>-9</u> 4 Ken	nedy/Jer	nks Consultants			
PROJECT	NAME:	mete	-d		`	WELL	WELL NUMBER: NMW-93						
PROJECT	NUMBER: _<	9760	166.0	0		PERSO	NNEL:	TARI	TCL				
SAMPLE D	ATA: AMPLED: _/	1330	2 <u> </u>		co	OMMENTS:	Tra	nsfer E	Plan H	Tatren			
	SAMPLED (F							ne: 130					
SAMPLI	NG EQUIPME	ENT: <u>T</u>	Pedica	ted B	ladber	Fump =	Jam,	de#: 3	743	ww			
SAMPLE NO.	NO. OF CONTAIN- ERS	CON- TAINER TYPE	PRESER- VATIVE	FIELD FILTRA- TION	VOLUME FILLED (ml or L)	TURBIDITY	SHIPPED UNDER ANALYSIS CHAIN-OF-CUS-REQUEST (METHOD)						
	#46/as Il Cheur - Yes WTPHD												
184 Mer 1l. Clear - VOS PAH													
PURGE WA	TER DISPO	SAL NOTI	es: 25		c	OMMENTS: _							
	SAL METHOD DESIGNATIO					· <b>-</b>							
WELL HEA	ND CONDITI	ONS CHE	CKLIST (	CIRCLE Y	ES OR NO -	IF NO, AD	COMM	ENTS):					
WELL SEC	CURITY DEV	ICES OK	(BOLLAR	DS, CHRI	STY LID, C	ASING LID	AND LO	CK)?: YES	NO				
INSIDE (	F WELL HE	AD AND	OUTER CA	SING DRY	?: <b>E</b> S	NO							
WELL CAS	ING OK?:	YES	NO										
COMMENTS	i:												
<del></del>		<del></del>	<del></del>										
GENERAL: WEATHE	R CONDITION	ons:	lear -	- Goat	Herod	Cloud	15 1	Forming					
TEMPER	ATURE (SP	ECIFY °	C OR °F)	: <u>4</u>	50F	<del></del> -							
PROBLE	MS ENCOUN	TERED DI	JRING PU	RGING OR	SAMPLING?								
Oth	er:					<b>-</b>							

Groundwater Pu	ırge aı	nd Samp	ole Form	Date:	1/6/94	Kenned	y/Jenks Co	nsultants				
PROJECT NAME:	AM.	sted		WELL	NUMBER:	NMW-	10A					
PROJECT NUMBER:	92	16061.	<i>CO</i>	PERS	PERSONNEL: JCL/JAR							
STATIC WATER LEVEL	(FT):	33	31	MEAS	URING POINT	DESCRIPTION:	TOM					
WATER LEVEL MEASURI	EMENT M	METHOD:	Golonist	PURG	E METHOD: $\overline{\underline{\mathcal{I}}}$	edicate	id blinde	10-				
TIME START PURGE:	10	15		PURG	E DEPTH (FT)	34	·					
TIME END PURGE:	10	3B		<del></del>								
TIME SAMPLED:	10	40	· · · · · · · · · · · · · · · · · · ·	<del></del>								
COMMENTS: 10c j	proc D p	<del>luct</del> ump	observ = 7/2'	ed								
					· · · · · · · · · · · · · · · · · · ·							
WELL VOLUME TO CALCULATION (FILL IN BE-FORE PURGING)	DEPTH TO WATER (FT)	WATER COLUMN (F	T) X CASH		1 1	ASING VOLUME (GAL)						
TIME	44	1017	<del></del>	1023	<del></del>	1032	<u> </u>	1.76 (				
VOLUME PURGED (GAL	)	<u> </u>	1018	Z		4.5	5.5					
PURGE RATE (GPM)					<u> </u>	4.7	),7					
TEMPERATURE (°C)		9,5	11.Z	11.4	11.6	11.9	11.9					
pH		6.44	- 6.21	6.06	6.06	6,24	6.30					
SPECIFIC CONDUCTIVITY (micro (uncorrected)	omhos) m	262	Zoz	201	201	Z04	Z01					
DISSOLVED OXYGEN (	mg/L)		0 —		_	_	_					
eH(MV)Pt-AgC1 ref.	<u>-</u>			_	_	_	_					
TURBIDITY/COLOR		Light Brown	Medium Brown	Light	Light	Light	Light					
ODOR NONE None None		None	None	None	None							
DEPTH TO WATER DUR PURGE (FT)	ING					_						
NUMBER OF CASING VOLUMES REMOVED		< /	3	~1	12	<3	3					
DEWATERED?		No					>					

Ground	roundwater Purge and Sample Form							- <i>94</i> Ken	nedy/Jen	ks Consultants			
PROJECT I	NAME: A	mster	4			WELL	WELL NUMBER: NMW-10A						
PROJECT 1	NUMBER:	426	6061.0	00		PERSO	ONNEL:	JAR/	TCL				
SAMPLE DA	ATA: AMPLED:	104	90		co	DMMENTS:							
	 SAMPLED (I					_	<u> </u>						
	NG EQUIPM			ed B	ladoer	_							
SAMPLE NO.	NO. OF CONTAIN- ERS	CON- TAINER TYPE	PRESER- VATIVE	FIELD FILTRA- TION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUS- TODY AT 4°C?	REOUEST	COMMENTS			
	3	Glass			12	Light	Brn,	yes yes	WTPH-D				
	3	Hm/		_	12	11	11	Yes	PAH				
PURGE WA	TER DISPO	SAL NOT	<u>ES</u> :	7	C	OMMENTS: _							
DISPOS	AL METHOD	: <u>D</u>	rumm	ed		_							
DRUM D	ESIGNATIO	N(S)/VO	LUME PER	(GAL):_									
WELL HEA	D CONDITI	ONS CHE	CKLIST (	CIRCLE Y	ES OR NO -	IF NO, AD	D COMM	ENTS):					
WELL SEC	URITY DEV	ICES OK	(BOLLAR	DS, CHRI	STY LID, C	ASING LID	AND LO	CK)?: Æ\$	NO				
INSIDE O	F WELL HE	AD AND	OUTER CA	SING DRY	?: <b>(ES</b>	NO							
WELL CAS	ING OK?:	ES	NO										
COMMENTS	:					<del></del>		0					
GENERAL: WEATHE	R CONDITI	ONS:(	bear										
TEMPER.	ATURE (SP	ECIFY °	C OR °F)	: <u>4</u>	ZOF			. ,	<del></del>				
PROBLE	MS ENCOUN	TERED D	URING PU	RGING OR	SAMPLING?		<u>-</u>						
Job	File:				7	_							

Groundwater								MW - //		KS C	onsultants		
PROJECT NAME:	_								_		······································		
PROJECT NUMBER:	<u>-426</u>	061	(.00)		PERS	PERSONNEL: JCL/JAR							
STATIC WATER LEV	/EL (FT):	_3	1, 3	3	MEAS	URING P	OINT	DESCRIPTION	: 70	14	-		
WATER LEVEL MEAS	SUREMENT N	METHOD:	50	linst	PURG	E METHO	D: <u>Z</u>	) edicat	fed	ρι	imp		
TIME START PURGE	:	1:0	0		PURG	E DEPTH	(FT)	33					
TIME END PURGE:		Z5	•	V-10									
TIME SAMPLED:	11:	25											
COMMENTS: No					sed								
RAISEd	pur	2/)	<u></u>	<u> </u>		<del> </del>	<del></del>		<del></del>				
<del>*************************************</del>						_							
WELL VOLUME CALCULATION	CALCULATION (FT)			DEPTH TO ATER (FT)	WATER COLUMN (F			ULTIPLIER FO NG DIAMETER			CASING VOLUM (GAL)		
(FILL IN BE- FORE PURGING)	44.	2		31.83	12.3	7 ×	0.16	0.64	1.44	=	2.4		
TIME		16.2	<i>O</i> 0	11:05	11:11	1/:/	'6	11:25					
VOLUME PURGED (	GAL)	1		2.5	4	6		7.5					
PURGE RATE (GPM)	)				-								
TEMPERATURE (°C	)	11.,	6	17.0	12.0	72.0		12.0	-		-		
рН		6.6	6	6.60	6.63	6.64		6.69					
SPECIFIC CONDUCTIVITY ( <u>m</u> (uncorrected)	(cromhos	56	7	566	356	56	3	563					
DISSOLVED OXYGE	(mg/L)	_	-		_	_	-						
eH(MV)Pt-AgC1 re	ef.	_				_							
TURBIDITY/COLOR	<del></del> .	Pros	Didit	Mydium	Light	Ligh	. <i>†</i>	Light	-				
ODOR			_			_				<del></del>			
DEPTH TO WATER ( PURGE (FT)	DURING												
NUMBER OF CASING VOLUMES REMOVED		<u> </u>			<7	2.5		3, 7					
DEWATERED?		, ,											

Ground	water r	urge a	nu san	npie ro	)/111					iks Consultants
PROJECT I	NAME: _	met	bed_	···· , ·	<del> </del>	WELL	NUMBER	: NMW	-1/A	
PROJECT I	NUMBER:	9260	064.	00	· ····	PERSO	NNEL:	JAR/	TCL	
SAMPLE DA	ATA: AMPLED: _	112	°5		co	DMMENTS: _				
DEPTH :	SAMPLED (	FT):	33			_		·- ·	<del> </del>	
SAMPLI	NG EQUIPM	ENT: <u>Z</u>	edicata	d Blads	er Pump					
SAMPLE NO.	NO. OF CONTAIN- ERS	TYPE	VATIVE	FIELD FILTRA- TION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUS- TODY AT 4°C?		COMMENTS
	3	GIA	~	-	12	Light	Brn	yes yes	WTPH-	
	3	Pm 5	_	_	)	Light	Brn	yes	PAH	
	TER DISPO			,	c	OMMENTS: _				
DRUM D	ESIGNATIO	N(S)/VO	LUME PER	(GAL):_						
WELL HEA	D CONDITI	ONS CHE	CKLIST (	CIRCLE Y	ES OR NO -	IF NO, AD	D COMM	ENTS):		
WELL SEC	URITY DEV	ICES OK	(BOLLAR	DS, CHRI	STY LID, C	ASING LID	AND LO	CK)?: YES	NO	
INSIDE O	F WELL HE	AD AND	OUTER CA	SING DRY	?: <b>(FES</b>	NO				
WELL CAS	ING OK?:	YES	NO							
COMMENTS	:		·			<del></del>		<del></del>	<del></del> -	
GENERAL: WEATHE	R CONDITI	ONS:	Clea	r						
TEMPER	ATURE (SP	ECIFY °	C OR °F)	: <u>4</u>	8°F					
PROBLE	MS ENCOUN	TERED D	URING PU	RGING OR	SAMPLING?				<del></del>	
Job	ject Mana File:									

Groundwater	Purge a	nd Sa	ampl	e Form	Date:	1/6/9	# <b>Kenne</b>	iy/Jenk	s Consultants				
PROJECT NAME:	Donsto	d .				12.4. / 15.0							
PROJECT NUMBER:	4260	61.0	00		PERS	PERSONNEL: JCL/VAR							
						MEASURING POINT DESCRIPTION: 7014							
WATER LEVEL MEAS	SUREMENT 1	METHOD:	: <u>_</u>	32.11 3	COONISPURG	E METHOD: _	Pedica	ted B	ladber				
TIME START PURGE	: _ 0	935	2		PURG	E DEPTH (FT	33	<del> </del>					
TIME END PURGE:	0	15 T	Z	<del></del>									
TIME SAMPLED:	<del></del>		0:0	5	<del></del>								
COMMENTS:		· i		•									
	o pr	adu	ct	obser	ved								
		; <del>-</del>		<del></del>				_					
			=	<del></del>			MULTIPLIER F	OR					
WELL VOLUME CALCULATION	TOTAL DI (FT)			DEPTH TO VATER (FT)	WATER COLUMN (F	1 1 <del></del>	ING DIAMETER ) 2	(IN) 6	CASING VOLUME (GAL)				
(FILL IN BE- FORE PURGING)	44			32.11	11.99	_ x	$\longrightarrow$	1.44	1.92				
TIME		093	·7	0440	0945	0950	0954						
VOLUME PURGED (	GAL)	1		2	4	5	6						
PURGE RATE (GPM	)				-								
TEMPERATURE (°C	)	10.2		10.5	11,4	11.3	11.4	-					
pH		6.60		6.30	6.00	621	6.23						
SPECIFIC CONDUCTIVITY ( <u>m</u> (uncorrected)	(cromhos	263		246	250	250	257						
DISSOLVED OXYGE	N (mg/L)						,						
eH(MV)Pt-AgCl ref.				_									
TURBIDITY/COLOR		Medium		Light	Light	Clear	clear						
ODOR		Non											
DEPTH TO WATER I	DURING	33											
NUMBER OF CASING VOLUMES REMOVED	3	<1		~	-2	22.5	n3						
DEWATERED?		. 1	_										

Groundwater Purge and Sample Form						Date:	Date: 1-6-94 Kennedy/Jenks Consultants						
PROJECT NAME: Am styl						WELL	NUMBER	: NMW-	12A				
PROJECT NUMBER: <u>926061.00</u>							PERSONNEL: TAR/TCL						
							-		·				
SAMPLE DA	ATA: AMPLED:	10%	5		co	DMMENTS:							
	 SAMPLED (F		_										
	NG EQUIPME			,	adder	_							
NO. OF CON- FIELD VOLUME SHIPPED UNDER ANALYSIS													
SAMPLE NO.	CONTAIN- ERS	TAINER TYPE	PRESER- VATIVE	FILTRA- TION	FILLED (ml or L)	<u> </u>		CHAIN-OF-CUS- TODY AT 4°C?		COMMENTS			
	3	Saz	~	_	16	Clear	NA	785 485	WTPH_				
	3	May	_	_	12	Clear	NA	485	PAH				
PURGE WA	TER DISPO	SAL NOTI	<u>ES</u> :	·	C	OMMENTS: _	1						
	AL METHOD					_							
DRUM D	ESIGNATIO	N(S)/VO	LUME PER	(GAL):_		<del>-</del>							
WELL HEA	D CONDITI	ONS CHE	CKLIST (	CIRCLE Y	ES OR NO -	IF NO, AD	D COMM	ENTS):	<del></del>				
WELL SEC	URITY DEV	ICES OK	(BOLLAR	DS, CHRI	STY LID, C	ASING LID	AND LO	CK)?: (ÉS	NO				
INSIDE O	F WELL HE	AD AND (	OUTER CAS	SING DRY	?: (YES)	NO							
WELL CAS	ING OK?:	Æ	NO										
COMMENTS	:			.=									
				<del></del>		<del></del>							
GENERAL:		<del></del>		====	<del></del>			<del></del>					
WEATHE	R CONDITI												
TEMPER.	ATURE (SP	ECIFY °	OR °F)	3	3°F			<del></del>	<del></del>				
PROBLE	MS ENCOUN	TERED DI	JRING PU	RGING OR	SAMPLING?								
	<del></del>	·· <del>····</del>	<del></del>	<del></del>					<del></del>				
Job	File:												
Oth	er:					<b>-</b> ·							

Groundwater Purge a	nd Sample	Form	Date:	<u> </u>	Kenned	y/Jenks C	onsultants				
PROJECT NAME: Ameter	<i>l.</i>		WELL	WELL NUMBER: NMW-13A							
PROJECT NUMBER: 9260	066.00		PERSO	PERSONNEL: TAR/TCL							
STATIC WATER LEVEL (FT):	32.45	5	MEASI	MEASURING POINT DESCRIPTION: TOM							
WATER LEVEL MEASUREMENT N	METHOD: 01	75	PURGI	PURGE METHOD: Dedicated Bludder Pump							
TIME START PURGE: 435	54		PURG	E DEPTH (FT)	34						
TIME END PURGE: 14	<del>55</del>										
TIME SAMPLED:	0		· · · · · · · · · · · · · · · · · · ·								
COMMENTS: Preduct	obse	erved	- used	Absor	bent	mater	ial				
to collect	produ	ct fo	on the	e wel	1 prio	v to					
purging	,	j									
WELL VOLUME TOTAL DE CALCULATION (FT)	1 1	DEPTH TO ATER (FT)	WATER COLUMN (F	CASI	MULTIPLIER FO ING DIAMETER 2	1 1	CASING VOLUME (GAL)				
FORE PURGING) 44.	1 3	32.45	11.65	1 1	0.64	1.44	16.78	(5c)			
TIME	13:55	1408	1422	1435	1450	1455		]			
VOLUME PURGED (GAL)	/	12	25	40	50	55					
PURGE RATE (GPM)											
TEMPERATURE (°C)	12.3	12.7	17.9	13.1	12.7	12.8					
pH	6.21	6.11	6.13	6,20	6.23	6.30					
SPECIFIC CONDUCTIVITY (micromhos) (uncorrected) cm	Z9/	282	Z77	275	Z75	275 278					
DISSOLVED OXYGEN (mg/L)	_	_		_							
eH(MV)Pt-AgCl ref.		_		_	-	-					
TURBIDITY/COLOR	Clear	clear	Clean	Uear	Clear	Clear Clear					
ODOR	Slight Diesel	Slight Diosel	Slight Dissol	Slight Diese 1	Diesel	Faint Diesel		_			
DEPTH TO WATER DURING PURGE (FT)											
NUMBER OF CASING VOLUMES REMOVED	20	41	~1.5	-2.5	3	3,3					
DEWATERED?	110										

Groundwater Purge and Sample Form						Date: 1-6-94 Kennedy/Jenks Consultan						
PROJECT	NAME:	mste	·d			WELL NUMBER: 13A						
PROJECT	NUMBER:	260	66.0	2 <u>0</u>		PERSONNEL: TAS/JCL						
SAMPLE DA	ATA: AMPLED: _	150	) <i>O</i>		C(	DMMENTS:	7)(	dicate	SAM	ple. Ollected		
DEPTH	SAMPLED (I	FT):	34	· · · · · · · · · · · · · · · · · · ·			Lac	n3) (2	AS C	ollected		
SAMPLI	NG EQUIPM	ENT: <u>D</u>	Pedicat	ed B	hadder							
SAMPLE NO.	NO. OF CONTAIN- ERS	TYPE	VATIVE	TION		<u> </u>		SHIPPED UNDER CHAIN-OF-CUS- TODY AT 4°C?		COMMENTS		
	6	Change			11	Clear		tes tes	WTFK-D			
	6	The Per	-		12	Clear		Yes	PAH			
l	TER DISPO			,	c	OMMENTS: _						
	ESIGNATIO											
	<u> </u>					IF NO, AD			NO .			
			·		?: (YES)	_	AND LO	· · · · · · · · · · · · · · · · · · ·	NO			
	ING OK?:		NO									
							····_	<del></del>		<del></del>		
GENERAL: WEATHE	R CONDITI	ONS:	Clear									
TEMPER	ATURE (SP	ECIFY °	C OR °F)	:5	54°F	·			·	· · · · · · · · · · · · · · · · · · ·		
PROBLE	MS ENCOUN	TERED D	URING PU	RGING OR	SAMPLING?							
Job	ject Mana File: mer:	-		<del></del>								

Groundwater Purge a	nd Sample	Form	Date:	Date: 1-6-94 Kennedy/Jenks Consultants							
PROJECT NAME:	15TFD			WELL NUMBER: 14 1614 A							
PROJECT NUMBER: $930$	6061.00		PERSO	PERSONNEL: JCL/JAK							
STATIC WATER LEVEL (FT):	29.0	25		MEASURING POINT DESCRIPTION: Top of Monument							
WATER LEVEL MEASUREMENT	METHOD:	<del></del>	PURGI	PURGE METHOD: Dedicated Bladder							
TIME START PURGE:	845		PURGI	PURGE DEPTH (FT) 30							
TIME END PURGE:	913	<del></del>	<del></del>			<del></del>					
TIME SAMPLED: 09											
COMMENTS: JH ME	Her C	Alibri	atid	pl+ 7	= 69	4					
Mista pu	m) =	10'	No	prod	uct c	bserv	ed				
	<del></del>	——————————————————————————————————————		u	ULTIPLIER FO	na III					
WELL VOLUME TOTAL D CALCULATION (FT) (FILL IN BE-	W	DEPTH TO ATER (FT)	WATER COLUMN (F	CASI	NG DIAMETER	1 1	CASING VOLUME (GAL)				
FORE PURGING)	5   6	29.05	15.03	5 0.16	0.64	1.44	2.41				
	0846	8:53	0900	0907	0910	0913	-				
VOLUME PURGED (GAL)	# )	3	5	6	7	3					
PURGE RATE (GPM)											
TEMPERATURE (°C)	7.0.	\$5	10.8	11.4	11.7	11.8					
рН	6.66	6.66	665	65 6.64 6.65							
SPECIFIC CONDUCTIVITY (micromhos) (uncorrected) cm		229	227	280	226	776					
DISSOLVED OXYGEN (mg/L)	_			_	<b>,</b>						
eH(MV)Pt-AgC1 ref.											
TURBIDITY/COLOR	Tulkid	MEDIUM/ BA	Light	Light	Clear						
ODOR	None:										
DEPTH TO WATER DURING PURGE (FT)		79.05									
NUMBER OF CASING VOLUMES REMOVED	41	/	2	-2.5	~3	_					
DEWATERED?		Ne				<del>&gt;</del>					

Groundwater Purge and Sample Form					Date:	Date: 1-6-94 Kennedy/Jenks Consultants							
PROJECT NAME: Am 5 Hed						WELL	NUMBER	R: NHW	-14				
PROJECT	NUMBER:	126	061.0	0		PERSO	<i>j</i>						
SAMPLE DA	ATA: AMPLED: <u>∠</u>	09/5	5		C0	DMMENTS:							
DEPTH :	SAMPLED (I	T):	30										
SAMPLI	NG EQUIPM	ENT: Z	dicate	ed Blue	lder	_							
SAMPLE NO.	NO. OF CONTAIN- ERS	CON- TAINER TYPE	PRESER- VATIVE	FIELD FILTRA- TION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUS- TODY AT 4°C?		COMMENTS			
	3	Amber 61			11	Light	弱		WTP#.D				
	3	agy	_	_	12	11	11		PAH				
TOTAL	TER DISPO DISCHARGE AL METHOD ESIGNATIO	(GAL): :	-60 Prum	med		OMMENTS: _							
						IF NO, AD			NO				
	F WELL HE		OUTER CA	SING DRY	?: <b>(PES</b> )	NO							
		_		<del>-</del>	· · · · · · · · · · · · · · · · · · ·								
	·	<del></del>											
GENERAL: WEATHE	R CONDITION	ONS:C	lear										
TEMPER.	ATURE (SP	ECIFY °	C OR °F)	:3	350 F	<del>-</del> -							
PROBLE	MS ENCOUN	TERED DI	URING PU	RGING OR	SAMPLING?								
Job	ject Mana File: er:			<del> </del>									